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(43) 国际公布日: 2005年1月27日(27.01.2005)



PCT

- 1 1227 - B. COLDENS AND ROLL ON RESEARCH FOR A SUBJECT OF STATE OF A SUBJECT OF A

(10) 国际公布号: WO 2005/008919 A1

(51) 国际分类号⁷:

H04B 7/26

(21) 国际申请号:

PCT/CN2004/000829

(22) 国际申请日:

2004年7月19日(19.07.2004)

(25) 申请语言:

中文

(26) 公布语言:

中文

(30) 优先权: 03145982.X

2003年7月18日(18.07.2003) CN

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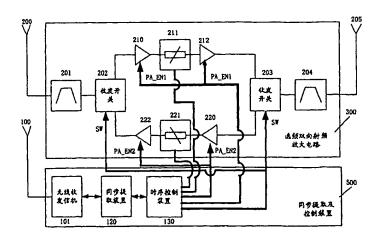
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(54) Title: BI-DIRECTIONAL SYNCHRONIZATION FORWARDING METHOD AND DEVICE FOR WIRELESS - SIGNALS

(54) 发明名称: 一种对无线信号进行双向同步转发的方法及装置



- 101 WIRELESS TRANSCEIVER
- 120 SYNCHRONIZATION EXTRACTION MEANS
- 130 SEQUENTIAL CONTROL MEANS
- 202 RECEIVE AND TRANSMIT SWITCH
- 203 RECEIVE AND TRANSMIT SWITCH
- 300 BI-DIRECTIONAL FREQUENCY SELECTION AND RADIO FREQUENCY AMBLIFICATION CIRCUIT
- 500 SYNCHRONIZATION EXTRACTION AND CONTROL MEANS

(57) Abstract: The present invention provides a wireless signal bi-directional synchronization forwarding method and device for use in a time division duplexing (TDD) wireless communication system, which can bidirectional synchronization forward wireless signals transmitted by a base station and a terminal device in the system. Said device include a receive and transmit wireless section, a bi-directional frequency selection and radio-frequency amplification circuit as well as synchronization extraction and control means. At first, said receive and transmit wireless section receives and forwards the wireless signals transmitted by said base station and said terminal device. And then said synchronization extraction and control device extracts synchronization control information from the wireless signals transmitted by said base station, which can control said bidirectional frequency election and radioamplification frequency circuit synchronization forward the, bi-directional received signals. The present invention can realize the synchronization forwarding for the bi-directional received signals without delaying the receive and transmit time, and also has a system failure monitoring function to ensure reliable operation of the system devices.

(57) 摘要

本发明提供了一种对无线信号进行双向同步转发的方法及装置,用于时分双工无线通信系统中,对系统中的基站和终端设备发射的无线信号进行双向同步转发,该装置包括:收发天线组、选频双向射频放大电路及同步提取及控制装置。由收发天线组接收并转发基站和终端设备发射的无线信号;通过同步提取及控制装置从基站发射的无线信号中提取同步控制信息以控制选频双向射频放大电路对双向接收信号的同步转发。利用本发明,不需要对收发信号的时间进行延迟,即可实现对双向接收信号的同步转发,同时还具有系统故障监测功能,保证了系统设备的可靠运行。